

NTSB Materials Laboratory Factual Report 6/20/00

NATIONAL TRANSPORTATION SAFETY BOARD

Office of Research and Engineering
Materials Laboratory Division
Washington, D.C. 20594



June 20, 2000

MATERIALS LABORATORY FACTUAL REPORT

Report No. 00-078

A. ACCIDENT

Place : Washington, D.C.
Date : June 1, 2000
Vehicle : M.S. Nieuw Amsterdam
NTSB No. : DCA00-M-M027
Investigator : Jim Scheffer, MS-10

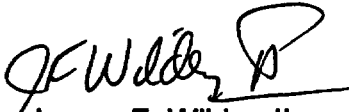
B. COMPONENTS EXAMINED

Two pieces of metal material

C. DETAILS OF THE EXAMINATION

Figure 1 shows the two pieces of metal material submitted for examination. Both pieces were very ductile and were estimated to have a relatively high density. The piece on the right in figure 1 had a uniform thickness and was much thinner than the other piece. The piece on the left was much thicker and irregular in shape, consistent with melted material that pooled and resolidified.

Both pieces were subjected to X-ray energy dispersive spectroscopy (EDS) in conjunction with a scanning electron microscope. These analyses generated spectra with major peaks for lead.


James F. Wildey II
Supervisory Metallurgist

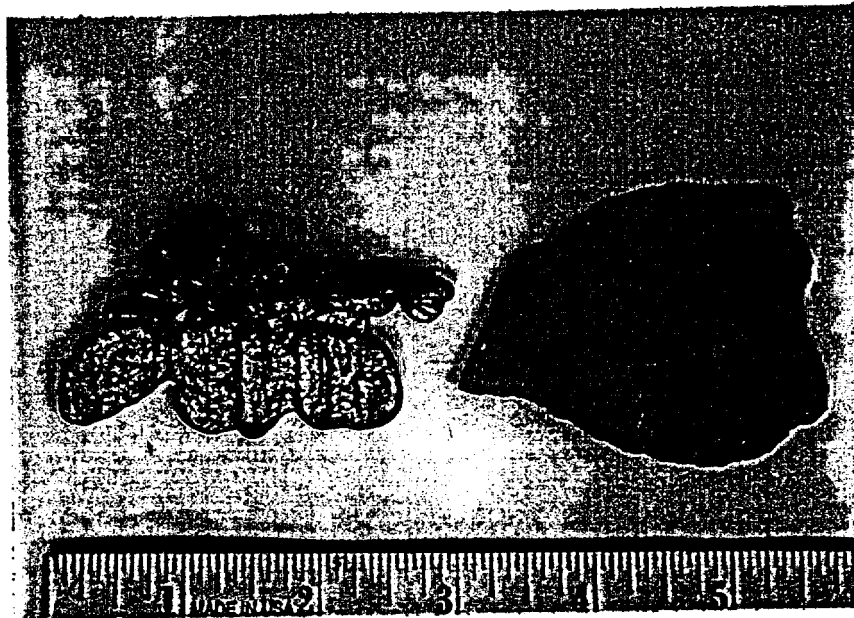


Figure 1. Overall view of the two metal pieces submitted for examination.